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NASA Procedural Requirements

COMPLIANCE IS MANDATORY**NPR 8910.1A**Effective Date: March 15,
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Subject: Care and Use of Animals

Responsible Office: Office of the Chief Health & Medical Officer[| TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [Chapter4](#) | [Chapter5](#) | [Chapter6](#) | [Chapter7](#) |
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CHAPTER 1. Definitions

The following definitions of terms are compatible with terminology in the Animal Welfare Act (AWA) and Public Health Service (PHS) Policy and apply to the conduct of all NASA activities related to the care and use of animals.

1.1. Activity includes research, testing, teaching, development of hardware for animal use, flight experimentation, and any other tasks involving the care and use of animals. This includes activities, such as those requiring primary tissue cultures derived from live animals.

1.2. Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International is a nongovernmental, non-profit organization established for the purpose of conducting elective, voluntary professional review and accreditation of laboratory animal care and use programs. Initial accreditation is achieved following a satisfactory onsite review by professionals knowledgeable of the field of Laboratory Animal Science and is maintained by submission of satisfactory annual reports and onsite re-reviews every 3 years.

1.3. Animal means any live or dead vertebrate animal that is being used or intended for use in research, teaching, testing, or experimentation or hardware development. Wildlife and agricultural animals are included only when they are used in nonagricultural research activities.

1.4. Animal Care Personnel are individuals directly involved in the care and monitoring of animal well-being, including animal or veterinary technicians or technologists, animal trainers, veterinarians, facility managers, and crewmembers.

1.5. Animal Facility and Study Area is any and all buildings, rooms, areas, enclosures, or vehicles, including satellite facilities, used for animal housing or holding, transport, maintenance, breeding, or experiments inclusive of surgical manipulation. A satellite facility is any containment (including spacecraft, sounding rockets, aircraft, balloons, and related equipment during experimental activities) or ground-based facilities outside of a core facility or centrally designated or managed area in which animals are housed for more than 12 hours. Vehicles used to transport animals between facilities must meet environmental control standards.

1.6. Animal Welfare Assurance is the document submitted by an institution to the Office of Laboratory Animal Welfare (OLAW) at the National Institutes of Health (NIH) ensuring institutional compliance with the Public Health Service (PHS) Policy.

1.7 Assurance Number is a number issued by OLAW to institutions that have an approved Animal Welfare Assurance.

1.8 Attending Veterinarian is a person who graduated from a veterinary school accredited by the American Veterinary Medical Association's Council on Education, or has a certificate issued by the American Veterinary Medical Association's Education Commission for Foreign Veterinary Graduates; has received training and/or is experienced in laboratory animal science and medicine, or in the care of the species being used, and who has direct or delegated authority and responsibility for activities involving animals.

1.9 Authorized NASA Official (ANO) is the NASA Administrator's representative responsible for all NASA activities involving animals. This individual is responsible for implementation of the provisions of this NPR and for ensuring that Agency programs involving animals comply fully with all applicable laws, regulations, and guidelines. NASA

Policy Directive (NPD) 8910, Care and Use of Animals, designates the NASA Headquarters Chief Health and Medical Officer (CHMO) as the ANO.

1.10. Crewmember is any person assigned to a spacecraft or an aircraft mission.

1.11. Institute of Laboratory Animal Resources (ILAR) is a component of the National Academy of Sciences, National Research Council, dedicated to fostering the responsible care and use of laboratory animals in biomedical research. ILAR publishes various guidelines for animal care and use and is the responsible office for preparation and publication of the 1996 edition of the Guide.

1.12. Institution is any public or private organization, business or agency (including components of Federal, State, and local governments). In the case of NASA, an "institution" is a NASA Center.

1.13. Institutional Animal Care and Use Committee (IACUC) is a committee established in accordance with the requirements of the AWA and PHS Policy at each institution using animals in research, testing, or training activities.

1.14. Institutional Official as used in the AWA refers to NASA Center Directors or the Center Director's designee.

1.15. Institutional Review Board (IRB) is a committee established, in accordance with NPD 7100.8, Protection of Human Research Subjects.

1.16. Interagency Research Animal Committee (IRAC) was established in 1983, by the Assistant Secretary for Health, U.S. Department of Health and Human Services. It is intended to be a focal point for Federal agencies to discuss issues involving animals used for research, testing, and training.

1.17. International Council for Laboratory Animal Science (ICLAS) is an international nongovernmental scientific organization that was founded in 1961, under the auspices of UNESCO and several scientific unions. The aims of ICLAS are to promote and coordinate the development of laboratory animal science throughout the world, to promote international collaboration in laboratory animal science, to promote the definition and monitoring of quality laboratory animals, to collect and disseminate information on laboratory animal science, and to promote the humane use of animals in research, testing, and teaching through recognition of ethical principles and scientific responsibilities. The U.S. representative is designated by ILAR.

1.18. Investigator is any person who uses or proposes to use animals in NASA-supported activities (see also Principal Investigator).

1.19. The NASA Animal Care and Use Policy Review Board (NACUPRB) is a board established by NASA to review the NASA animal care and use policy and procedures, including this NPR. The board is composed of the NASA Chief Veterinarian as Chair; Center veterinarians; Chairs of each Center's IACUC; other representatives of each Center as appointed by Center Directors; a public affairs, a legal, and a legislative representative; and other experts in animal care and use, as appointed by the ANO. The NASA Chief Veterinarian shall appoint the Executive Secretary.

1.20. The NASA Flight Animal Care and Use Committee (NF ACUC) is a committee established by NASA to review, approve or disapprove all protocols using animals that are associated with flight activities supported by NASA. Members of the committee shall include, as a minimum, the NASA Chief Veterinarian, representatives from IACUC's at NASA centers, an Attending or Duty Veterinarian, a practicing scientist experienced in research involving animals, a public member to represent the general community interest, and one member whose primary concerns are in a nonscientific area (for example, ethicist, lawyer, or member of the clergy).

1.21. Office of Laboratory Animal Welfare (OLAW) is the division of National Institutes of Health (NIH) responsible for overseeing implementation and enforcement of the PHS Policy on Humane Care and Use of Laboratory Animals.

1.22. Principal Investigator (PI) is an investigator who has overall responsibility for all aspects of a NASA-supported animal activity and has received authorized funding (either government or corporate, as applicable) to conduct such activities.

1.23. PHS includes, among others, the Centers for Disease Control; the Food and Drug Administration; the Health Resources and Services Administration; and NIH.

1.24. Research or Flight Program Manager is the person designated by NASA Headquarters to manage each program in which NASA has a research or payload interest. Programs may consist of several projects.

1.25. Research or Flight Project Manager is the person designated by a Center Director to manage individual projects.

1.26. NASA Selection Official is any person authorized to make final selections of programs or projects to be supported by the Agency.

1.27. NASA Chief Veterinarian is a veterinarian appointed by the ANO to coordinate veterinary and animal care and use activities on an Agencywide basis. The NASA Chief Veterinarian may be a NASA civil servant or one appointed under the Intergovernmental Personnel Act (IPA) provision. He/she also serves as Chairperson of the NACUPRB.

1.28. Support means activities involving animals funded by or sponsored by NASA, or conducted in or on NASA facilities, aircraft, or spacecraft. Such activities include those conducted under a contract, cooperative agreement or grant, reimbursable agreement, or other arrangement or agreement, entered into by NASA and another Government agency, private entity, nonfederal public entity, or foreign entity.

1.29. Duty Veterinarian is a veterinarian appointed by the NASA Chief Veterinarian to serve as the Attending Veterinarian responsible for animal care and use issues associated with a flight mission in progress.

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